JANIS-2.0 AN IMPROVED VERSION OF THE NEA JAVA-BASED

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The first version of the JANIS nuclear data display software, developed by the OECD Nuclear Energy Agency (NEA), was released in conjunction with the nuclear data conference ND'2001 in Tsukuba, Japan. More than 700 copies have been distributed since then and users have provided feedback and ideas for further development. This feedback was used in the development of a new version, which implements several improvements such as:

- Management of the data through a Java-based relational database management system.
- Access to centralised reference databases (available on the NEA server) through the Java servlet technology.
- Access to experimental reaction data in the original EXFOR format. The first version of JANIS accessed only the numerical EXFOR data through a special computational format. In the new version, the user can access the full EXFOR work, including the comment section.
- Access to bibliographic references in the CINDA database for neutron induced reaction data, including a link between CINDA and EXFOR.
 - Access to nuclear and decay properties (NUBASE).
- Generalisation of computational features available for reaction datafor interaction data; these features (such as linear combinations, ratios of data) were earlier restricted to cross-section data only. It is now possible to perform more advanced combinations such as a product of cross-sections with energy and angular distributions.

The full paper will show how the features of JANIS-2.0 can be used to visualise and explore the diversity of information contained in nuclear data libraries.

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